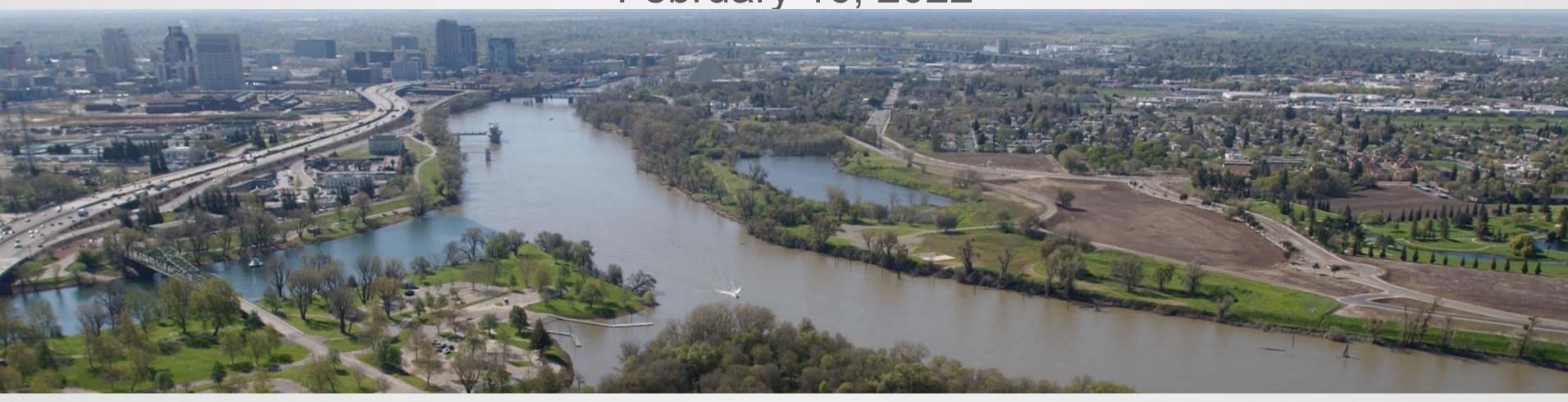
Climate Change in the SWP Delivery Capability Report

February 16, 2022



DCR - Purpose

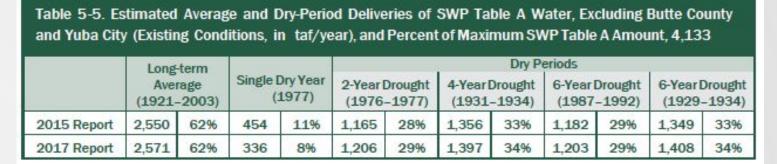
- Part of the Monterey Plus Settlement Agreement
- Bi-annual report of Existing delivery capability
 - Over a range of hydrologic conditions
 - Historic extended dry cycle
 - Long-term average
- Added Future delivery capability at the SWC request



DCR - Key Results

- The most important information used by contractors is the long-term average and the single dry year delivery
- SWP Table A, Article 56, & Article 21 average annual deliveries
 - Long-Term
 - Wet Periods
 - Dry Periods
- Individual Contractor deliveries for the same categories above





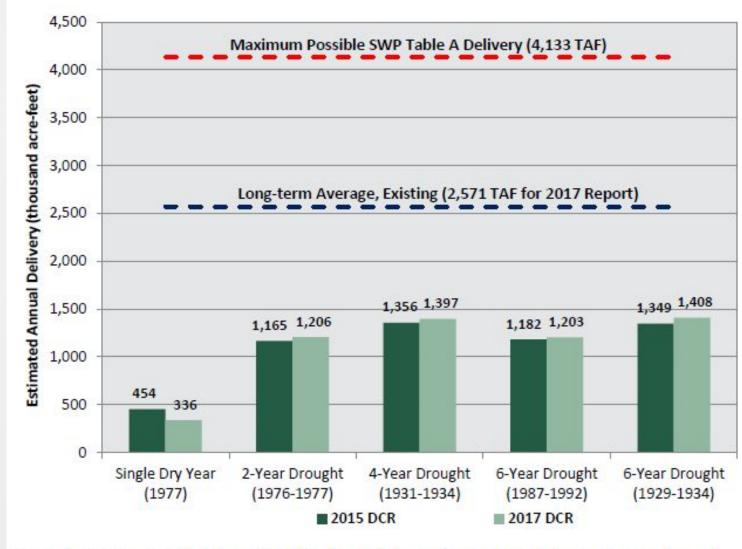


Figure 5-4. Estimated Dry-Period SWP Table A Water Deliveries (Excluding Butte County and Yuba City)

Draft DCR 2021 Results: Existing Condition

Wet Period SWP Table A Water Deliveries

Report	Long-term Average		Single Wet Year (1983)		Single	Wet Year		Wet Periods								
					(2011)		2-Year (1982-1983)		4-Ye ar (1980-1983)		6-Year (1978-1983)		10-Year (1978-1987)			
DCR 2019 (1922-2003)	2,414	58%	4,008	97%	-	-	3,750	91%	3,330	81%	3,210	78%	2,967	72%		
DCR 2021 draft (1922-2015)	2,309	56%	3,940	95%	3,573	86%	3,762	91%	3,186	77%	3,088	75%	2,893	70%		

Dry Period SWP Table A Water Deliveries

Report	Long	Long-term Average		Single Dry Year (1977)		Single Dry Year (2014)		Dry Periods										
								2-Year Drought		2-Year Drought		4-Year Drought		6-Year Drought		6-Year Drought		
							(1976-1977)		(2014-2015)		(1931-1934)		(1987-1992)		(1929-1934)			
DCR 2019 (1922-2003)	2,414	58%	288	7%	-	-	1,311	32%	•	-	1,228	30%	1,058	26%	1,158	28%		
DCR 2021 draft (1922-2015)	2,309	56%	203	5%	198	5%	1,360	33%	974	24%	910	22%	1,114	27%	1,046	25%		

- Draft release: December 31, 2021
- 30-day comment period
- Final release: Scheduled for March 31, 2022



The DCR serves as the default climate change scenario for SWP planning:

- > PARO- future resource planning
- Oroville cold-water and pumpback studies
- California Aqueduct subsidence program (project operations only)



DCR - Evolution Timeline

2003 -2005 (Current & Future land-use) 2015 (Included 4 Futures consistent with BDCP)



2017 -2021 (Single Future condition included only in UWMP years)



DCR - Current Form

- Existing delivery capability
- Future delivery capability informed by climate change
 - Released in years aligned with Urban Water Management Plans (~ 5 years)
- SWP Contractors have expressed desire for "one number"
- Climate changed inputs "taken off the shelf" (BDCP, ITP, etc.)



Climate Change – Considerations

State Laws and Pronouncements:

- AB 1482
- AB 2800

- EO B-30-15
- EO N-10-19

DCR ramifications to local planning and investment decisions:

- SWP Contractors
- UWMPs
- AGWMPs

- IRWMPs
- and other entities

WRM75 & CAPII provides a framework for climate change analysis consistency



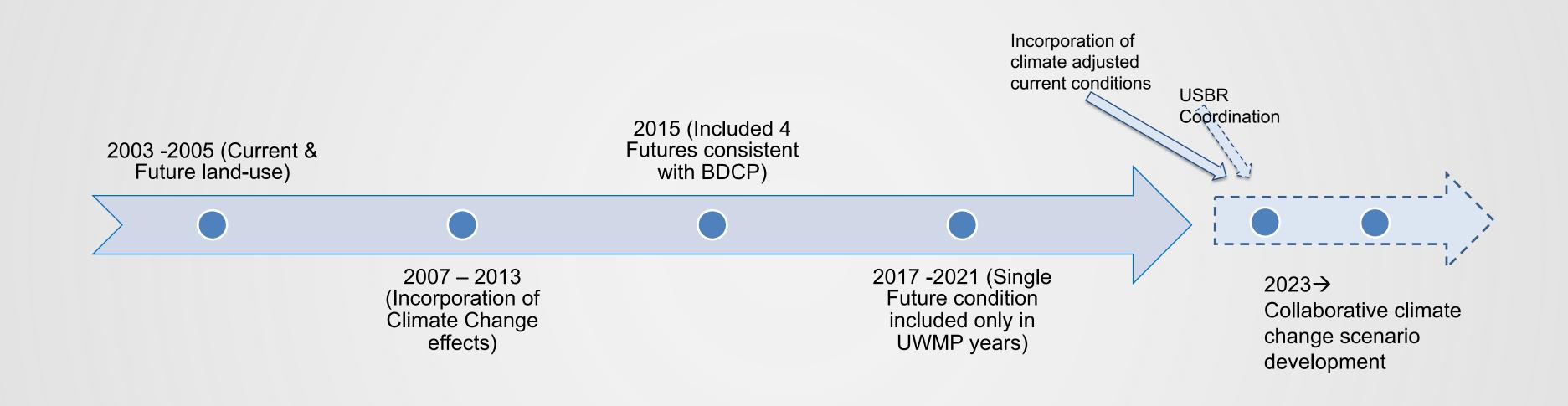
Climate Change is Now

 Creation of a new "Climate Adjusted Current Conditions" simulation

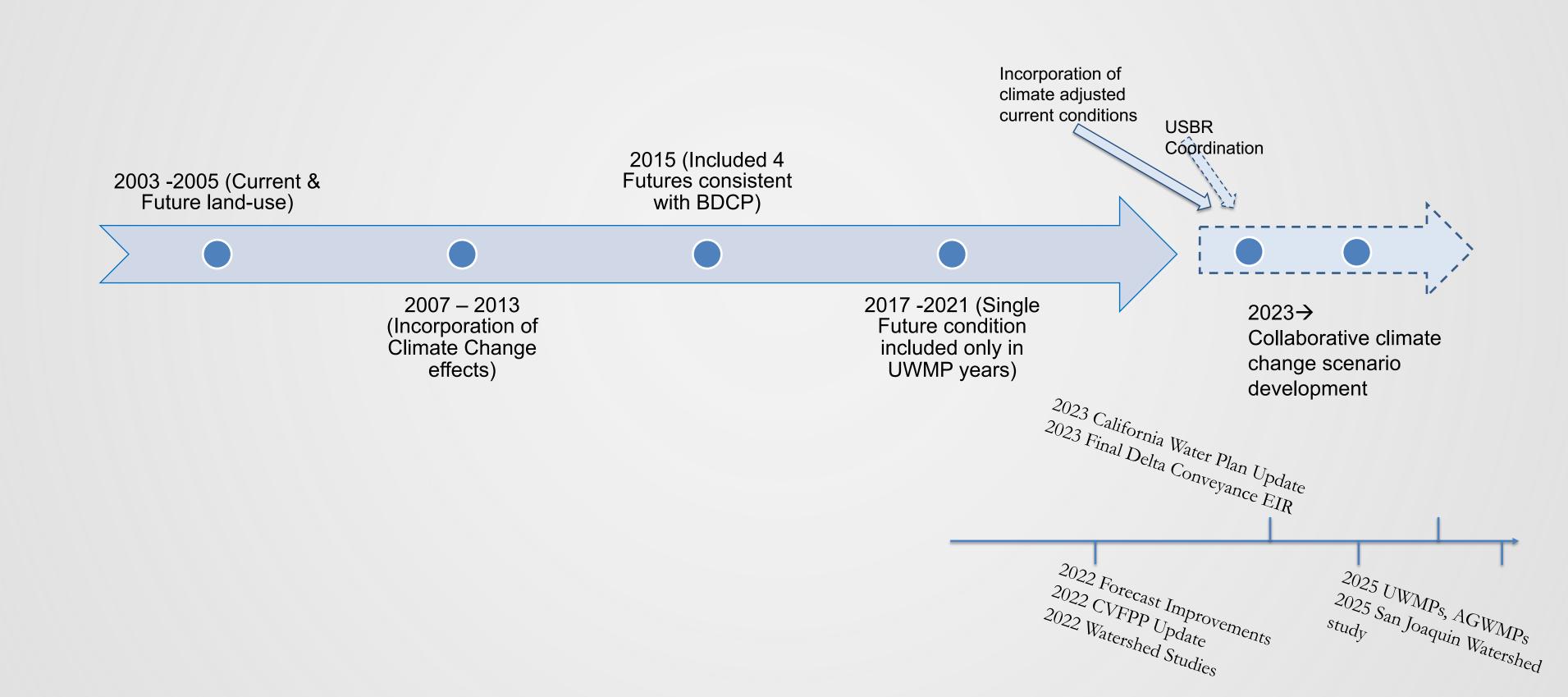
- > Account for climate changes that have *already* occurred
- Estimation of *current* SWP capacity and reliability for use in operations and planning studies
- Moving forward-future climate changes would be mapped onto this new baseline



DCR Climate Change Planning



DCR Climate Change Planning



Key Take Home Points

 The DCR has become the most consequential source of climate change information for the SWP

 DCR climate change information has been driven by the "lastbig-project"

 Moving forward we want to be more intentional and collaborative in our development of climate change information

